

Break Bulk on Container Vessel:

The other answer to your need



A presentation for

Summary:

- Chapter 1 Introduction to Breakbulk Cargo on Container Vessel
- Chapter 2 Stowing and Securing of the Cargo on-board
- **Chapter 3** Loading Procedures Gears & Lifting Tools
- **Chapter 4** Planning the process Safety Considerations (Method Statement)
- Chapter 5 Advantages & Limitations of Breakbulk on Container Vessel
- Chapter 6 Breakbulk on Container Vessel Lifting & Stowage Pictures Chapter 7 – Q&A



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Chapter 1 – Introduction to Breakbulk Cargo on Container Vessel

Industry Foot Print ->



Leisure boats Racing yachts Trimaran Tugs, pilot boats	Turbines nacelle components Wind blades	Transformer Generator Gear box	Rail cars Locomotives Panels	Vehicles EPCs cargos	Xmas Trees Pipes Pumps	Helicopters Fuselage Boarding bridges	Crates Paper Machinery
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Project Cargo Container Shipping Line Structure ->





Under-Deck Stowage – Along Ship or Athwart Ship

Under-Deck Stowage -Along Ship

"Space Efficient" only for cargo with limited length

Stowage preferred in majority of BBK shipments

On-Deck Stowage – Along Ship or Athwart Ship

- ✓ Only sub. Client confirmation;
- ✓ If length of vessel hold in loading Athwart is not enough;
- ✓ Will usually work on smaller vessel which are not equipped of <u>lashing bridges;</u>
- ✓ On-Deck Proposed also in case under-deck full;

BBK loaded on-deck alongship

Standard Stowage: Always on bed of 40FRs

<u>For Heavy-Lifts:</u> Sandwich Beds (+50% Payload + Increase Lashing Points)

Lashing Points: 12 to 19 Lashing Points @5mtons SWL longitudinal Ttl 4 Lashing Points @5mtons SWL aft & rear

Min. 28x5mtons = 140Mtons MSL per 40FR Max. 42x5mton= 210Mtons MSL per 40FR

Example: On a bed of 3x40FRs Heavy-Duty <u>Theoretical</u> Max. MSL : 630MTONS

<u>Lashing Gears:</u> 5Mtons SWL Nylon Belts (No D-Ring/Stopper Welding on Container Ships)

Chapter 3 – Loading Procedures – Gears & Lifting Tools

3 Loading/Offloading Options (depends on operated Terminal equipment)

Option A: Gantry Crane

Chapter 3 – Loading Procedures – Gears & Lifting Tools

Lifting Gears (Spreaders, Grommets, Lifting Belts, Hooks, Shackles etc...)

- -> Provided by Terminal
- -> Securing on-board operated by Shore Gangs, under Chief Officer, Local Ops and Surveyor supervision
- -> Lifting Gears may be provided by Shipper
- -> Exotic Lifting Gears (ie, lifting baskets, others) may be provided by shipping line , sub. terminal approval

Lifting gears certificate always pre-checked and Made available to surveyor on-spot

Chapter 4 – Planning the process – Safety Considerations (Method Statement)

<u>Method Statement – Lifting Plan</u>

Chapter 4 – Planning the process – Safety Considerations (Method Statement)

Method Statement – Lashing & Securing Plan

Chapter 5 – Advantages & Limitations of Breakbulk on Container Vessel

- Global Coverage
- Weekly Sailings (*)
- Under-Deck Stowage
- No Dead-Freight & No Vessel Detention
- Capacity for Heavy-Loads on ports equipped of Floating Cranes (up to 400-500mtons)
- Capacity to handle routings with 1 or 2 T/S

- 1000's CBMs packing-lists (ie. Pipes).
- Pricing on the container freight market tendency
- Tailor-Made Solutions
- Reliance on Terminal equipment
- (*) Breakbulk usually loaded on owned vessel

BREAKBULK CARGO ON CONTAINER VESSEL

Capacity to ship a full project packing-list, with combination BBK + OOG + DRY

Break-Bulk Solution Tailor Made and will rely on POL/POT/POD lifting equipments

Dedicated Project Cargo Departments under constant improvement

Chapter 6 – Breakbulk on Container Vessel – Lifting & Stowage Pictures

4x OVER-LENGTH CRATES – SHORE CRANE LIFTING + SECURING ONTO STANDARD 40FR BED

Chapter 6 – Break-Bulk on Container Vessel – Lifting & Stowage Pictures

<u>1x PROPELLOR – SHORE CRANE LIFTING + SECURING ONTO SANDWICH BED (4x 40FRs bed)</u>

Chapter 6 – Breakbulk on Container Vessel – Lifting & Stowage Pictures

<u>2x REACTORS – FLOATING CRANE LIFTING + SECURING ONTO SANDWICH BED (22x 40FRs bed)</u>

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